

OBDII Codes Explained

OBD-II codes consist of a number of parts. Here is a sample OBD2 code: **P0171**

Here is a breakdown of what each digit of the code means:

First Character - System

The first character identifies the system related to the trouble code.

- P = Powertrain
- B = Body
- C = Chassis
- U = Undefined

Second Digit - Code Type

The second digit identifies whether the code is a generic code (same on all OBD-II equipped vehicles), or a manufacturer specific code.

- 0 = Generic (this is the digit zero -- not the letter "O")
- 1 = Enhanced (manufacturer specific)
- 2 = Generic
- 3 = Generic

Third Digit - Sub-System

The third digit denotes the type of sub-system that pertains to the code

- 1 = Emission Management (Fuel or Air)
- 2 = Injector Circuit (Fuel or Air)
- 3 = Ignition or Misfire
- 4 = Emission Control
- 5 = Vehicle Speed & Idle Control
- 6 = Computer & Output Circuit
- 7 = Transmission
- 8 = Transmission
- 9 = SAE Reserved
- 0 = SAE Reserved

Fourth and Fifth Digits

These digits, along with the others, are variable, and relate to a particular problem.

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P00XX Fuel and Air Metering and Auxiliary Emission Controls

P0000 No Diagnostic Trouble Codes Reported
P0001 Fuel Volume Regulator Cntrl Circuit/Open
P0002 Fuel Volume Regulator Cntrl Circuit/Range Performance
P0003 Fuel Volume Regulator Cntrl Circuit Low
P0004 Fuel Volume Regulator Cntrl Circuit High
P0005 Fuel Shutoff Valve 'A' Cntrl Circuit/Open
P0006 Fuel Shutoff Valve 'A' Cntrl Circuit Low
P0007 Fuel Shutoff Valve 'A' Cntrl Circuit High
P0008 Engine Position System Performance Bank 1
P0009 Engine Position System Performance Bank 2
P0010 "A" Camshaft Position Actuator Circuit (Bank 1)
P0011 "A" Camshaft Position - Timing Over-Advanced or System Performance (Bank 1)
P0012 "A" Camshaft Position - Timing Over-Retarded (Bank 1)
P0013 "B" Camshaft Position - Actuator Circuit (Bank 1)
P0014 "B" Camshaft Position - Timing Over-Advanced or System Performance (Bank 1)
P0015 "B" Camshaft Position - Timing Over-Retarded (Bank 1)
P0016 Crankshaft Position – Camshaft Position Correlation Bank 1 Sensor A
P0017 Crankshaft Position – Camshaft Position Correlation Bank 1 Sensor B
P0018 Crankshaft Position – Camshaft Position Correlation Bank 2 Sensor A
P0019 Crankshaft Position – Camshaft Position Correlation Bank 2 Sensor B
P0020 "A" Camshaft Position Actuator Circuit (Bank 2)
P0021 "A" Camshaft Position - Timing Over-Advanced or System Performance (Bank 2)
P0022 "A" Camshaft Position - Timing Over-Retarded (Bank 2)
P0023 "B" Camshaft Position - Actuator Circuit (Bank 2)
P0024 "B" Camshaft Position - Timing Over-Advanced or System Performance (Bank 2)
P0025 "B" Camshaft Position - Timing Over-Retarded (Bank 2)
P0026 Intake Valve Cntrl Solenoid Circuit Range/Performance Bank 1
P0027 Exhaust Valve Cntrl Solenoid Circuit Range/Performance Bank 1
P0028 Intake Valve Cntrl Solenoid Circuit Range/Performance Bank 2
P0029 Exhaust Valve Cntrl Solenoid Circuit Range/Performance Bank 2
P0030 HO2S Heater Control Circuit (Bank 1 Sensor 1)
P0031 HO2S Heater Control Circuit Low (Bank 1 Sensor 1)
P0032 HO2S Heater Control Circuit High (Bank 1 Sensor 1)
P0033 Turbo Charger Bypass Valve Control Circuit
P0034 Turbo Charger Bypass Valve Control Circuit Low
P0035 Turbo Charger Bypass Valve Control Circuit High
P0036 HO2S Heater Control Circuit (Bank 1 Sensor 2)
P0037 HO2S Heater Control Circuit Low (Bank 1 Sensor 2)
P0038 HO2S Heater Control Circuit High (Bank 1 Sensor 2)
P0039 Turbo/Super Charger Bypass Valve Cntrl Circuit Range/Performance
P0040 O2 Sensor Signals Swapped Bank 1 Sensor 1/bank 2 Sensor 1
P0041 O2 Sensor Signals Swapped Bank 1 Sensor 2/bank 2 Sensor 2
P0042 HO2S Heater Control Circuit (Bank 1 Sensor 3)
P0043 HO2S Heater Control Circuit Low (Bank 1 Sensor 3)
P0044 HO2S Heater Control Circuit High (Bank 1 Sensor 3)
P0045 Turbo/Super Charger Boost Cntrl Solenoid Circuit/Open
P0046 Turbo/Super Charger Boost Cntrl Solenoid Circuit Range/Performance
P0047 Turbo/Super Charger Boost Cntrl Solenoid Circuit Low

P0048 Turbo/Super Charger Boost Cntrl Solenoid Circuit High
P0049 Turbo/Super Charger turbine Over Speed
P0050 HO2S Heater Control Circuit (Bank 2 Sensor 1)
P0051 HO2S Heater Control Circuit Low (Bank 2 Sensor 1)
P0052 HO2S Heater Control Circuit High (Bank 2 Sensor 1)
P0053 HO2S Heater Resistance (Bank 1 Sensor 1)
P0054 HO2S Heater Resistance (Bank 1 Sensor 2)
P0055 HO2S Heater Resistance (Bank 1 Sensor 3)
P0056 HO2S Heater Control Circuit (Bank 2 Sensor 2)
P0057 HO2S Heater Control Circuit Low (Bank 2 Sensor 2)
P0058 HO2S Heater Control Circuit High (Bank 2 Sensor 2)
P0059 HO2S Heater Resistance (Bank 2 Sensor 1)
P0060 HO2S Heater Resistance (Bank 2 Sensor 2)
P0061 HO2S Heater Resistance (Bank 2 Sensor 3)
P0062 HO2S Heater Control Circuit (Bank 2 Sensor 3)
P0063 HO2S Heater Control Circuit Low (Bank 2 Sensor 3)
P0064 HO2S Heater Control Circuit High (Bank 2 Sensor 3)
P0065 Air Assisted Injector Control Range/Performance
P0066 Air Assisted Injector Control Circuit or Circuit Low
P0067 Air Assisted Injector Control Circuit High
P0068 MAP/MAF – Throttle Position Correlation
P0069 Manifold Absolute Pressure – Barometric Pressure Correlation
P0070 Ambient Air Temperature Sensor Circuit
P0071 Ambient Air Temperature Sensor Range/Performance
P0072 Ambient Air Temperature Sensor Circuit Low Input
P0073 Ambient Air Temperature Sensor Circuit High Input
P0074 Ambient Air Temperature Sensor Circuit Intermittent
P0075 Intake Valve Control Solenoid Circuit (Bank 1)
P0076 Intake Valve Control Solenoid Circuit Low (Bank 1)
P0077 Intake Valve Control Solenoid Circuit High (Bank 1)
P0078 Exhaust Valve Control Solenoid Circuit (Bank 1)
P0079 Exhaust Valve Control Solenoid Circuit Low (Bank 1)
P0080 Exhaust Valve Control Solenoid Circuit High (Bank 1)
P0081 Intake valve Control Solenoid Circuit (Bank 2)
P0082 Intake Valve Control Solenoid Circuit Low (Bank 2)
P0083 Intake Valve Control Solenoid Circuit High (Bank 2)
P0084 Exhaust Valve Control Solenoid Circuit (Bank 2)
P0085 Exhaust Valve Control Solenoid Circuit Low (Bank 2)
P0086 Exhaust Valve Control Solenoid Circuit High (Bank 2)
P0087 Fuel Rail/System Pressure – Too Low
P0088 Fuel Rail/System Pressure – Too High
P0089 Fuel Pressure Regulator 1 Performance
P0090 Fuel Pressure Regulator 1 Cntrl Circuit
P0091 Fuel Pressure Regulator 1 Cntrl Circuit Low
P0092 Fuel Pressure Regulator 1 Cntrl Circuit High
P0093 Fuel System Leak Detected – Large Leak
P0094 Fuel System Leak Detected – Small Leak
P0095 Intake Air Temp. Sensor 2 Circuit
P0096 Intake Air Temp. Sensor 2 Circuit Range/Performance
P0097 Intake Air Temp. Sensor 2 Circuit Low
P0098 Intake Air Temp. Sensor 2 Circuit High
P0099 Intake Air Temp. Sensor 2 Circuit Intermittent/Erratic

P01XX Fuel and Air Metering

P0100 Mass or Volume Air Flow Circuit
P0101 Mass or Volume Air Flow Circuit Range/Performance Problem
P0102 Mass or Volume Air Flow Circuit Low Input
P0103 Mass or Volume Air Flow Circuit High Input
P0104 Mass or Volume Air Flow Circuit Intermittent
P0105 Manifold Absolute Pressure/Barometric Pressure Circuit
P0106 Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance Problem
P0107 Manifold Absolute Pressure/Barometric Pressure Circuit Low Input

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P0108 Manifold Absolute Pressure/Barometric Pressure Circuit High Input	P0171 System too Lean (Bank 1)
P0109 Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent	P0172 System too Rich (Bank 1)
P0110 Intake Air Temp. Circuit	P0173 Fuel Trim Malfunction (Bank 2)
P0111 Intake Air Temp. Circuit Range/Performance Problem	P0174 System too Lean (Bank 2)
P0112 Intake Air Temp. Circuit Low Input	P0175 System too Rich (Bank 2)
P0113 Intake Air Temp. Circuit High Input	P0176 Fuel Composition Sensor Circuit
P0114 Intake Air Temp. Circuit Intermittent	P0177 Fuel Composition Sensor Circuit Range/Performance
P0115 Engine Coolant Temp. Circuit	P0178 Fuel Composition Sensor Circuit Low Input
P0116 Engine Coolant Temp. Circuit Range/Performance Problem	P0179 Fuel Composition Sensor Circuit High Input
P0117 Engine Coolant Temp. Circuit Low Input	P0180 Fuel Temperature Sensor A Circuit
P0118 Engine Coolant Temp. Circuit High Input	P0181 Fuel Temperature Sensor A Circuit Range/Performance
P0119 Engine Coolant Temp. Circuit Intermittent	P0182 Fuel Temperature Sensor A Circuit Low Input
P0120 Throttle/Pedal Position Sensor/Switch A Circuit	P0183 Fuel Temperature Sensor A Circuit High Input
P0121 Throttle/Pedal Position Sensor/Switch A Circuit Range/Performance Problem	P0184 Fuel Temperature Sensor A Circuit Intermittent
P0122 Throttle/Pedal Position Sensor/Switch A Circuit Low Input	P0185 Fuel Temperature Sensor B Circuit
P0123 Throttle/Pedal Position Sensor/Switch A Circuit High Input	P0186 Fuel Temperature Sensor B Circuit Range/Performance
P0124 Throttle/Pedal Position Sensor/Switch A Circuit Intermittent	P0187 Fuel Temperature Sensor B Circuit Low Input
P0125 Insufficient Coolant Temp. for Closed Loop Fuel Cntrl	P0188 Fuel Temperature Sensor B Circuit High Input
P0126 Insufficient Coolant Temp. for Stable Operation	P0189 Fuel Temperature Sensor B Circuit Intermittent
P0127 Intake Air Temp. Too High	P0190 Fuel Rail Pressure Sensor Circuit
P0128 Coolant Thermostat (Coolant Temp. Below Thermostat Regulating Temp.)	P0191 Fuel Rail Pressure Sensor Circuit Range/Performance
P0129 Barometric Pressure Too Low	P0192 Fuel Rail Pressure Sensor Circuit Low Input
P0130 O2 Sensor Circuit (Bank 1 Sensor 1)	P0193 Fuel Rail Pressure Sensor Circuit High Input
P0131 O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	P0194 Fuel Rail Pressure Sensor Circuit Intermittent
P0132 O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	P0195 Engine Oil Temperature Sensor
P0133 O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	P0196 Engine Oil Temperature Sensor Range/Performance
P0134 O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	P0197 Engine Oil Temperature Sensor Low
P0135 O2 Sensor Heater Circuit (Bank 1 Sensor 1)	P0198 Engine Oil Temperature Sensor High
P0136 O2 Sensor Circuit Malfunction (Bank 1 Sensor 2)	P0199 Engine Oil Temperature Sensor Intermittent
P0137 O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)	P02XX Fuel and Air Metering
P0138 O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	P0200 Injector Circuit
P0139 O2 Sensor Circuit Slow Response (Bank 1 Sensor 2)	P0201 Injector Circuit - Cylinder 1
P0140 O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 2)	P0202 Injector Circuit - Cylinder 2
P0141 O2 Sensor Heater Circuit (Bank 1 Sensor 2)	P0203 Injector Circuit - Cylinder 3
P0142 O2 Sensor Circuit Malfunction (Bank 1 Sensor 3)	P0204 Injector Circuit - Cylinder 4
P0143 O2 Sensor Circuit Low Voltage (Bank 1 Sensor 3)	P0205 Injector Circuit - Cylinder 5
P0144 O2 Sensor Circuit High Voltage (Bank 1 Sensor 3)	P0206 Injector Circuit - Cylinder 6
P0145 O2 Sensor Circuit Slow Response (Bank 1 Sensor 3)	P0207 Injector Circuit - Cylinder 7
P0146 O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 3)	P0208 Injector Circuit - Cylinder 8
P0147 O2 Sensor Heater Circuit (Bank 1 Sensor 3)	P0209 Injector Circuit - Cylinder 9
P0148 Fuel Delivery Error	P0210 Injector Circuit - Cylinder 10
P0149 Fuel Timing Error	P0211 Injector Circuit - Cylinder 11
P0150 O2 Sensor Circuit (Bank 2 Sensor 1)	P0212 Injector Circuit - Cylinder 12
P0151 O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1)	P0213 Cold Start Injector 1
P0152 O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)	P0214 Cold Start Injector 2
P0153 O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	P0215 Engine Shutoff Solenoid
P0154 O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 1)	P0216 Injector/Injection Timing Control Circuit
P0155 O2 Sensor Heater Circuit (Bank 2 Sensor 1)	P0217 Engine Coolant Over Temperature Condition
P0156 O2 Sensor Circuit Malfunction (Bank 2 Sensor 2)	P0218 Transmission Fluid Over Temperature Condition
P0157 O2 Sensor Circuit Low Voltage (Bank 2 Sensor 2)	P0219 Engine Overspeed Condition
P0158 O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	P0220 Throttle/Pedal Position Sensor/Switch "B" Circuit
P0159 O2 Sensor Circuit Slow Response (Bank 2 Sensor 2)	P0221 Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance Problem
P0160 O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 2)	P0222 Throttle/Pedal Position Sensor/Switch "B" Circuit Low Input
P0161 O2 Sensor Heater Circuit (Bank 2 Sensor 2)	P0223 Throttle/Pedal Position Sensor/Switch "B" Circuit High Input
P0162 O2 Sensor Circuit Malfunction (Bank 2 Sensor 3)	P0224 Throttle/Pedal Position Sensor/Switch "B" Circuit Intermittent
P0163 O2 Sensor Circuit Low Voltage (Bank 2 Sensor 3)	P0225 Throttle/Pedal Position Sensor/Switch "C" Circuit
P0164 O2 Sensor Circuit High Voltage (Bank 2 Sensor 3)	P0226 Throttle/Pedal Position Sensor/Switch "C" Circuit Range/Performance Problem
P0165 O2 Sensor Circuit Slow Response (Bank 2 Sensor 3)	P0227 Throttle/Pedal Position Sensor/Switch "C" Circuit Low Input
P0166 O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 3)	P0228 Throttle/Pedal Position Sensor/Switch "C" Circuit High Input
P0167 O2 Sensor Heater Circuit (Bank 2 Sensor 3)	
P0168 Fuel Temperature Too High	
P0169 Incorrect Fuel Composition	
P0170 Fuel Trim (Bank 1)	

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P0229 Throttle/Pedal Position Sensor/Switch "C" Circuit Intermittent
P0230 Fuel Pump Primary Circuit
P0231 Fuel Pump Secondary Circuit Low
P0232 Fuel Pump Secondary Circuit High
P0233 Fuel Pump Secondary Circuit Intermittent
P0234 Turbo/Super Charger Overboost Condition
P0235 Turbo/Super Charger Boost Sensor "A" Circuit
P0236 Turbo/Super Charger Boost Sensor "A" Circuit Range/Performance
P0237 Turbo/Super Charger Boost Sensor "A" Circuit Low
P0238 Turbo/Super Charger Boost Sensor "A" Circuit High
P0239 Turbo/Super Charger Boost Sensor "B" Circuit
P0240 Turbo/Super Charger Boost Sensor "B" Circuit Range/Performance
P0241 Turbo/Super Charger Boost Sensor "B" Circuit Low
P0242 Turbo/Super Charger Boost Sensor "B" Circuit High
P0243 Turbo/Super Charger Wastegate Solenoid "A"
P0244 Turbo/Super Charger Wastegate Solenoid "A" Range/Performance
P0245 Turbo/Super Charger Wastegate Solenoid "A" Low
P0246 Turbo/Super Charger Wastegate Solenoid "A" High
P0247 Turbo/Super Charger Wastegate Solenoid "B"
P0248 Turbo/Super Charger Wastegate Solenoid "B" Range/Performance
P0249 Turbo/Super Charger Wastegate Solenoid "B" Low
P0250 Turbo/Super Charger Wastegate Solenoid "B" High
P0251 Injection Pump Fuel Metering Control "A" (Cam/Rotor/Injector)
P0252 Injection Pump Fuel Metering Control "A" Range/Performance (Cam/Rotor/Injector)
P0253 Injection Pump Fuel Metering Control "A" Low (Cam/Rotor/Injector)
P0254 Injection Pump Fuel Metering Control "A" High (Cam/Rotor/Injector)
P0255 Injection Pump Fuel Metering Control "A" Intermittent (Cam/Rotor/Injector)
P0256 Injection Pump Fuel Metering Control "B" (Cam/Rotor/Injector)
P0257 Injection Pump Fuel Metering Control "B" Range/Performance (Cam/Rotor/Injector)
P0258 Injection Pump Fuel Metering Control "B" Low (Cam/Rotor/Injector)
P0259 Injection Pump Fuel Metering Control "B" High (Cam/Rotor/Injector)
P0260 Injection Pump Fuel Metering Control "B" Intermittent (Cam/Rotor/Injector)
P0261 Cylinder 1 Injector Circuit Low
P0262 Cylinder 1 Injector Circuit High
P0263 Cylinder 1 Contribution/Balance
P0264 Cylinder 2 Injector Circuit Low
P0265 Cylinder 2 Injector Circuit High
P0266 Cylinder 2 Contribution/Balance
P0267 Cylinder 3 Injector Circuit Low
P0268 Cylinder 3 Injector Circuit High
P0269 Cylinder 3 Contribution/Balance
P0270 Cylinder 4 Injector Circuit Low
P0271 Cylinder 4 Injector Circuit High
P0272 Cylinder 4 Contribution/Balance
P0273 Cylinder 5 Injector Circuit Low
P0274 Cylinder 5 Injector Circuit High
P0275 Cylinder 5 Contribution/Balance
P0276 Cylinder 6 Injector Circuit Low
P0277 Cylinder 6 Injector Circuit High
P0278 Cylinder 6 Contribution/Balance
P0279 Cylinder 7 Injector Circuit Low
P0280 Cylinder 7 Injector Circuit High

P0281 Cylinder 7 Contribution/Balance
P0282 Cylinder 8 Injector Circuit Low
P0283 Cylinder 8 Injector Circuit High
P0284 Cylinder 8 Contribution/Balance
P0285 Cylinder 9 Injector Circuit Low
P0286 Cylinder 9 Injector Circuit High
P0287 Cylinder 9 Contribution/Balance
P0288 Cylinder 10 Injector Circuit Low
P0289 Cylinder 10 Injector Circuit High
P0290 Cylinder 10 Contribution/Balance
P0291 Cylinder 11 Injector Circuit Low
P0292 Cylinder 11 Injector Circuit High
P0293 Cylinder 11 Contribution/Balance
P0294 Cylinder 12 Injector Circuit Low
P0295 Cylinder 12 Injector Circuit High
P0296 Cylinder 12 Contribution/Balance
P0298 Engine Oil Over Temp.
P0299 Turbo/Supercharger Underboost

P03XX Ignition System or Misfire

P0300 Random/Multiple Cylinder Misfire Detected
P0301 Cylinder 1 Misfire Detected
P0302 Cylinder 2 Misfire Detected
P0303 Cylinder 3 Misfire Detected
P0304 Cylinder 4 Misfire Detected
P0305 Cylinder 5 Misfire Detected
P0306 Cylinder 6 Misfire Detected
P0307 Cylinder 7 Misfire Detected
P0308 Cylinder 8 Misfire Detected
P0309 Cylinder 9 Misfire Detected
P0310 Cylinder 10 Misfire Detected
P0311 Cylinder 11 Misfire Detected
P0312 Cylinder 12 Misfire Detected
P0313 Misfire Detected with Low Fuel
P0314 Single Cylinder Misfire (Cylinder not Specified)
P0315 Crankshaft Position System Variation Not Learned
P0316 Engine Misfire Detected on Startup (First 1000 Revolutions)
P0317 Rough Road Hardware Not Present
P0318 Rough Road Sensor "A" Signal Circuit
P0319 Rough Road Sensor "B"
P0320 Ignition/Distributor Engine Speed Input Circuit
P0321 Ignition/Distributor Engine Speed Input Circuit Range/Performance
P0322 Ignition/Distributor Engine Speed Input Circuit No Signal
P0323 Ignition/Distributor Engine Speed Input Circuit Intermittent
P0324 Knock Control System Error
P0325 Knock Sensor 1 Circuit (Bank 1 or Single Sensor)
P0326 Knock Sensor 1 Circuit Range/Performance (Bank 1 or Single Sensor)
P0327 Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)
P0328 Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)
P0329 Knock Sensor 1 Circuit Input Intermittent (Bank 1 or Single Sensor)
P0330 Knock Sensor 2 Circuit (Bank 2)
P0331 Knock Sensor 2 Circuit Range/Performance (Bank 2)
P0332 Knock Sensor 2 Circuit Low Input (Bank 2)
P0333 Knock Sensor 2 Circuit High Input (Bank 2)
P0334 Knock Sensor 2 Circuit Input Intermittent (Bank 2)
P0335 Crankshaft Position Sensor A Circuit
P0336 Crankshaft Position Sensor A Circuit Range/Performance
P0337 Crankshaft Position Sensor A Circuit Low Input
P0338 Crankshaft Position Sensor A Circuit High Input
P0339 Crankshaft Position Sensor A Circuit Intermittent

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P0340 Camshaft Position Sensor "A" Circuit (Bank 1 or Sgl Sensor)	P0393 Camshaft Position Sensor "B" Circuit High Input (Bank 2)
P0341 Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)	P0394 Camshaft Position Sensor "B" Circuit Intermittent (Bank 2)
P0342 Camshaft Position Sensor "A" Circuit Low Input (Bank 1 or Single Sensor)	P04XX Auxiliary Emission Controls
P0343 Camshaft Position Sensor "A" Circuit High Input (Bank 1 or Single Sensor)	P0400 Exhaust Gas Recirculation Flow
P0344 Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or Single Sensor)	P0401 Exhaust Gas Recirculation Flow Insufficient Detected
P0345 Camshaft Position Sensor "A" Circuit (Bank 2)	P0402 Exhaust Gas Recirculation Flow Excessive Detected
P0346 Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	P0403 Exhaust Gas Recirculation Control Circuit
P0347 Camshaft Position Sensor "A" Circuit Low Input (Bank 2)	P0404 Exhaust Gas Recirculation Control Circuit Range/Performance
P0348 Camshaft Position Sensor "A" Circuit High Input (Bank 2)	P0405 Exhaust Gas Recirculation Sensor "A" Circuit Low
P0349 Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	P0406 Exhaust Gas Recirculation Sensor "A" Circuit High
P0350 Ignition Coil Primary/Secondary Circuit	P0407 Exhaust Gas Recirculation Sensor "B" Circuit Low
P0351 Ignition Coil "A" Primary/Secondary Circuit	P0408 Exhaust Gas Recirculation Sensor "B" Circuit High
P0352 Ignition Coil "B" Primary/Secondary Circuit	P0409 Exhaust Gas Recirculation Sensor "A" Circuit
P0353 Ignition Coil "C" Primary/Secondary Circuit	P0410 Secondary Air Injection System
P0354 Ignition Coil "D" Primary/Secondary Circuit	P0411 Secondary Air Injection System Incorrect Flow Detected
P0355 Ignition Coil "E" Primary/Secondary Circuit	P0412 Secondary Air Injection System Switching Valve "A" Circuit
P0356 Ignition Coil "F" Primary/Secondary Circuit	P0413 Sec Air Injection System Switching Valve "A" Circuit Open
P0357 Ignition Coil "G" Primary/Secondary Circuit	P0414 Sec Air Injection System Switching Valve "A" Circuit Shorted
P0358 Ignition Coil "H" Primary/Secondary Circuit	P0415 Secondary Air Injection System Switching Valve "B" Circuit
P0359 Ignition Coil "I" Primary/Secondary Circuit	P0416 Sec Air Injection System Switching Valve "B" Circuit Open
P0360 Ignition Coil "J" Primary/Secondary Circuit	P0417 Sec Air Injection System Switching Valve "B" Circuit Shorted
P0361 Ignition Coil "K" Primary/Secondary Circuit	P0418 Secondary Air Injection System Relay "A" Circuit
P0362 Ignition Coil "L" Primary/Secondary Circuit	P0419 Secondary Air Injection System Relay "B" Circuit
P0363 Misfire Detected – Fueling Disabled	P0420 Catalyst System Efficiency Below Threshold (Bank 1)
P0364 Reserved	P0421 Warm Up Catalyst Efficiency Below Threshold (Bank 1)
P0365 Camshaft Position Sensor "B" Circuit (Bank 1)	P0422 Main Catalyst Efficiency Below Threshold (Bank 1)
P0366 Camshaft Position Sensor "B" Circuit Range/Performance (Bank 1)	P0423 Heated Catalyst Efficiency Below Threshold (Bank 1)
P0367 Camshaft Position Sensor "B" Circuit Low Input (Bank 1)	P0424 Heated Catalyst Temperature Below Threshold (Bank 1)
P0368 Camshaft Position Sensor "B" Circuit High Input (Bank 1)	P0425 Catalyst Temp. Sensor (Bank 1)
P0369 Camshaft Position Sensor "B" Circuit Intermittent (Bank 1)	P0426 Catalyst Temp. Sensor Range/Performance (Bank 1)
P0370 Timing Reference High Resolution Signal "A"	P0427 Catalyst Temp. Sensor Low Input (Bank 1)
P0371 Timing Reference High Resolution Signal "A" Too Many Pulses	P0428 Catalyst Temp. Sensor High Input (Bank 1)
P0372 Timing Reference High Resolution Signal "A" Too Few Pulses	P0429 Catalyst Heater Control Circuit (Bank 1)
P0373 Timing Reference High Resolution Signal "A" Intermit/Erratic Pulses	P0430 Catalyst System Efficiency Below Threshold (Bank 2)
P0374 Timing Reference High Resolution Signal "A" No Pulse	P0431 Warm Up Catalyst Efficiency Below Threshold (Bank 2)
P0375 Timing Reference High Resolution Signal "B"	P0432 Main Catalyst Efficiency Below Threshold (Bank 2)
P0376 Timing Reference High Resolution Signal "B" Too Many Pulses	P0433 Heated Catalyst Efficiency Below Threshold (Bank 2)
P0377 Timing Reference High Resolution Signal "B" Too Few Pulses	P0434 Heated Catalyst Temp. Below Threshold (Bank 2)
P0378 Timing Reference High Resolution Signal "B" Intermit/Erratic Pulses	P0435 Catalyst Temp. Sensor (Bank 2)
P0379 Timing Reference High Resolution Signal "B" No Pulses	P0436 Catalyst Temp. Sensor Range/Performance (Bank 2)
P0380 Glow Plug/Heater Circuit "A"	P0437 Catalyst Temp. Sensor Low Input (Bank 2)
P0381 Glow Plug/Heater Indicator Circuit	P0438 Catalyst Temp. Sensor High Input (Bank 2)
P0382 Glow Plug/Heater Circuit "B"	P0439 Catalyst Heater Control Circuit (Bank 2)
P0383 Reserved by document	P0440 Evaporative Emission Control System
P0384 Reserved by document	P0441 Evaporative Emission Control System Incorrect Purge Flow
P0385 Crankshaft Position Sensor "B" Circuit	P0442 Evap Emission Control System Leak Detected (small leak)
P0386 Crankshaft Position Sensor "B" Circuit Range/Performance	P0443 Evap Emission Control System Purge Control Valve Circuit
P0387 Crankshaft Position Sensor "B" Circuit Low Input	P0444 Evap Emission Ctrl System Purge Control Valve Circuit Open
P0388 Crankshaft Position Sensor "B" Circuit High Input	P0445 Evap Emission Ctrl System Purge Control Valve Circuit Shorted
P0389 Crankshaft Position Sensor "B" Circuit Intermittent	P0446 Evaporative Emission Control System Vent Control Circuit
P0390 Camshaft Position Sensor "B" Circuit (Bank 2)	P0447 Evap Emission Control System Vent Control Circuit Open
P0391 Camshaft Position Sensor "B" Circuit Range/Performance (Bank 2)	P0448 Evap Emission Control System Vent Control Circuit Shorted
P0392 Camshaft Position Sensor "B" Circuit Low Input (Bank 2)	P0449 Evap Emission Control System Vent Valve/Solenoid Circuit
	P0450 Evaporative Emission Control System Pressure Sensor

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P0451 Evap Emission Ctrl System Pressure Sensor Range/Performance	P0510 Closed Throttle Position Switch
P0452 Evap Emission Control System Pressure Sensor Low Input	P0511 Idle Air Cntrl Circuit
P0453 Evap Emission Control System Pressure Sensor High Input	P0512 Starter Request Circuit
P0454 Evap Emission Control System Pressure Sensor Intermittent	P0513 Incorrect Immobilizer Key (Immobilizer pending SAE J1930 approval)
P0455 Evap Emission Control System Leak Detected (gross leak)	P0514 Battery Temperature Sensor Circuit Range/Performance
P0456 Evap Emission Control System Leak Detected (very small leak)	P0515 Battery Temperature Sensor Circuit
P0457 Evap Emission Ctrl System Leak Detected (fuel cap loose/off)	P0516 Battery Temperature Sensor Circuit Low
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